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0008462569 *Drawing available*
WPI Acc no: 1997-402201/199737
Related WPI Acc No: 1996-116963
XRAM Acc no: C1997-129682
New sulphonylaryl-imidazole derivatives which are cyclooxygenase-2 selective inhibitors - headache, without causing side effects e.g. ulcers
Patent Assignee: SEARLE & CO G D (SEAR); COLLINS P W (COLL-I); HUFF R M (HUFF-I I); WEIER R M (WEIE-I); XU X (XUXX-I); YU Y (YUYY-I)
Inventor: COLLINS P; COLLINS P W; HUFF R; HUFF R M; KHANNA I K; KOSZYK F; KOSZ WEIR R ; XU X; YU U; YU Y

Patent Family (17 patents, 75 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1997027181	A1	19970731	WO 1997US300	A	19970124	199737	B
AU 199715739	A	19970820	AU 199715739	A	19970124	199749	E
ZA 199700670	A	19980624	ZA 1997670	A	19970127	199831	E
EP 880504	A1	19981202	EP 1997901952	A	19970124	199901	E
			WO 1997US300	A	19970124		
NZ 327022	A	19990629	NZ 327022	A	19970124	199931	E
			WO 1997US300	A	19970124		
JP 2000503987	W	20000404	JP 1997526876	A	19970124	200027	E
			WO 1997US300	A	19970124		
AU 730642	B	20010308	AU 199715739	A	19970124	200119	E
AU 200111100	A	20010510	AU 199715739	A	19970124	200130	NCE
			AU 200111100	A	20010109		
EP 1193265	A2	20020403	EP 1997901952	A	19970124	200230	E
			EP 2001123289	A	19970124		
EP 880504	B1	20030402	EP 1997901952	A	19970124	200325	E
			WO 1997US300	A	19970124		
			EP 2001123289	A	19970124		
DE 69720428	E	20030508	DE 69720428	A	19970124	200338	E
			EP 1997901952	A	19970124		
			WO 1997US300	A	19970124		

Priority Applications (no., kind, date): US 2005183016 A 20050715; US 2003653399 A 2003(1999101493 A 19990602; WO 1997US300 A 19970124; WO 1995US9506 A 19950727; US 1 19960126

US 6613789	B2	20030902	US 1994282395	A	19940728	200359	E	
			US 1995464154	A	19950605			Paten
			WO 1995US9506	A	19950727			WO 1
			WO 1997US300	A	19970124			Natio
			US 1999101493	A	19990602			State
			US 20014944	A	20011205			
AU 767993	B	20031127	AU 199715739	A	19970124	200404	NCE	Regio
			AU 200111100	A	20010109			State
ES 2197983	T3	20040116	EP 1997901952	A	19970124	200413	E	AU 1
US 20050096368	A1	20050505	US 1994282395	A	19940728	200531	E	ZA 1
			US 1995464154	A	19950605			EP 88
			WO 1995US9506	A	19950727			
			WO 1997US300	A	19970124			Regio
			US 1999101493	A	19990602			State
			US 20014944	A	20011205			NZ 32
			US 2003653399	A	20030902			
US 20050256120	A1	20051117	US 1994282395	A	19940728	200576	E	JP 20
			US 1995464154	A	19950605			
			WO 1995US9506	A	19950727			AU 7
			WO 1997US300	A	19970124			
			US 1999101493	A	19990602			AU 2
			US 20014944	A	20011205			
			US 2003653399	A	20030902			EP 11
			US 2005183016	A	20050715			
PH 1199755403	B1	20041029	PH 199755403	A	19970127	200619	E	Regio
								State
								EP 88
								Regio
								State
								DE 69
								US 6

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PH 11

Alerting Abstract WO A1

Sulphonylaryl–imidazole derivatives of formula (I) and their salts are new: in which R1, R2 = aminosulphonyl, alkylsulphonyl or haloalkylsulphonyl (AMS, ALS, or HALS), halo, cyano, hyd alkylthio, alkoxyalkyl, alkoxycarbonyl, amino, alkylamino, arylamino, or nitro); provided that a alkyl, haloalkyl, or hydroxyalkyl, 1–10C alkoxy or alkylthio, aralkyl, heterocycloalkyl, acyl, cy cycloalkylsulphonyl, haloalkylsulphonyl, arylsulphonyl, halogen, alkoxyalkyl, alkylcarbonyl, ary aminoalkyl, alkylaminoalkyl, N–arylaminoalkyl, N–alkyl–N–arylaminoalkyl, carboxyalkyl, alkoxy alkylaminocarbonyl, alkylaminocarbonylalkyl, heteroarylalkoxyalkyl, heteroaryloxyalkyl, heter aryloxyalkyl arylthio, aryloxy, aralkylthioalkyl, aralkoxyalkyl, aryl, or heterocyclo; R4 = H, F, c claimed are sulphonylaryl–imidazole derivatives of formula (V): R4' = H, alkyl, or halo; and R USE – (I) are cyclooxygenase (COX) inhibitors, with selectivity for COX–2 rather than COX antipyretics in treatment of fever; and are non–steroidal antiinflammatory drugs (NSAIDs), various forms of arthritis, lupus erythematosus, asthma, bronchitis, menstrual cramps, tend Crohn's disease, gastritis, irritable bowel, ulcerative colitis, prevention and treatment of car aplastic anaemia, Hodgkin's disease, scleroderma, rheumatic fever, type I diabetes, neurom sarcoidosis, nephrotic or Behcet's syndrome, polymyositis, gingivitis, nephritis, hypersensiti conjunctivitis, eye tissue injury, pulmonary inflammation from viral infections or cystic fibro distress or endotoxic shock syndromes, atherosclerosis, or CNS damage from stroke, ischa ADVANTAGE – As selective COX–2 inhibitors, (I) do not cause the severe side effects, inc corticosteroids.

Title Terms /Index Terms/Additional Words: NEW; SULPHONYL; ARYL; IMIDAZOLE; DERI
RELATED; DISORDER; ARTHRITIS; PAIN; HEADACHE; CAUSE; SIDE; EFFECT; ULCER

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
C07D-233/32; C07D-233/54			Main		"Version 7"
A61K-031/4164; A61K-031/4178; A61K-031/422; A61K-031/4439; A61K-031/4725; A61P-029/00; C07D-233/90; C07D-401/04; C07D-401/12; C07D-403/04; C07D-405/04; C07D-409/04; C07D-413/04; C07D-417/04			Secondary		"Version 7"
A61K-0031/415	A	I		R	20060101
A61K-0031/4178	A	I		R	20060101
A61K-0031/4439	A	I		R	20060101
A61K-0031/4709	A	I		R	20060101
A61K-0031/5377	A	I		R	20060101
A61P-0029/00	A	I		R	20060101
C07D-0233/32	A	I		R	20060101
C07D-0233/54	A	I		R	20060101
C07D-0233/90	A	I		R	20060101
C07D-0401/04	A	I		R	20060101
C07D-0401/12	A	I		R	20060101
C07D-0403/04	A	I		R	20060101
C07D-0405/04	A	I		R	20060101
C07D-0409/04	A	I		R	20060101
C07D-0413/02	A	I		R	20060101
C07D-0413/04	A	I		R	20060101
C07D-0417/04	A	I		R	20060101
C07D-0419/04	A	I		R	20060101
A61K-0031/415	C	I		R	20060101
A61K-0031/4164	C	I		R	20060101
A61K-0031/4427	C	I		R	20060101
A61K-0031/4709	C	I		R	20060101
A61K-0031/5375	C	I		R	20060101
A61P-0029/00	C	I		R	20060101
C07D-0233/00	C	I		R	20060101
C07D-0401/00	C	I		R	20060101
C07D-0403/00	C	I		R	20060101
C07D-0405/00	C	I		R	20060101

C07D-0409/00	C	I		R	20060101
C07D-0413/00	C	I		R	20060101
C07D-0417/00	C	I		R	20060101
C07D-0419/00	C	I		R	20060101

US Classification, Issued: 514397000, 514235500, 514326000, 514314000, 514341000, 514397000, 514400000, 546176000, 546210000, 546272700, 548311100 , 544139000, 514397000, 514399000, 514314000, 514341000, 514396000, 514398000, 514400000, 544139000, 546184000, 546334000, 548311400, 548315100 , 548315400, 548323500, 548325500

File Segment: CPI
DWPI Class: B02; B03
Manual Codes (CPI/A-N): B07-D09; B14-A02; B14-C01; B14-C03; B14-C04; B14-C09; B14-E01; B14-F01E; B14-F02D; B14-F03; B14-G02A; B14-H01; B14-J01 ; B14-J01A3; B14-K01; B14-K01A; B14-K01D; B14-N03; B14-N16; B14-N17A; B14-N17C; B14-S01; B14-S04

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(51) International Patent Classification 6 : C07D 233/54, A61K 31/415, C07D 233/32, 233/90, 401/04, 403/04, 405/04, 409/04, 413/04, 417/04 — A1

(11) International Publication Number: **WO 97/27181**

(43) International Publication Date: 31 July 1997 (31.07.97)

(21) International Application Number: PCT/US97/00300

(22) International Filing Date: 24 January 1997 (24.01.97)

(30) Priority Data:
08/592,167 26 January 1996 (26.01.96) US

(60) Parent Application or Grant
(63) Related by Continuation
US 08/592,167 (CON)
Filed on 26 January 1996 (26.01.96)

(71) Applicant *(for all designated States except US)*: G.D. SEARLE & CO. [US/US]; Corporate Patent Dept., P.O. Box 5110, Chicago, IL 60680-5110 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: KHANNA, Ish, K. [IN/US]; 149 Brandywine Court, Vernon Hills, IL 60061 (US). WEIER, Richard, M. [US/US]; 240 Hickory Court, Lake Bluff, IL 60044 (US). COLLINS, Paul, W. [US/US]; 1557 Hawthorne Place, Deerfield, IL 60015 (US). YU, Ui [CN/US]; 9065 Gross Point Road, GW, Skokie, IL 60077 (US). XU, Xiangdong [CN/US]; Apartment 715, 855 Hinman Avenue, Evanston, IL 60202 (US). PARTIS, Richard, A. [US/US]; 2221 Noyes Street, Evanston, IL 60201 (US). KOSZYK, Francis, J. [US/US]; 11 Wildwood Drive South, Prospect Heights, IL 60070 (US). HUFF, Renee, M. [US/US]; 937 Lincoln Park, Park Ridge, IL 60068 (US).

(74) Agents: WILLIAMS, Roger, A. et al.; G.D. Searle & Co., Corporate Patent Dept., P.O. Box 5110, Chicago, IL 60680-5110 (US).

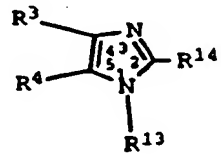
(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: HETEROCYCLO-SUBSTITUTED IMIDAZOLES FOR THE TREATMENT OF INFLAMMATION

(57) Abstract

A class of imidazolyl compounds is described for use in treating inflammation. Compounds of particular interest are defined by formula (V), wherein R^3 is a radical selected from hydrido, alkyl, haloalkyl, aralkyl, heterocycloalkyl, heteroaralkyl, acyl, cyano, alkoxy, alkylthio, alkylthioalkyl, alkylsulfonyl, cycloalkylthio, cycloalkylthioalkyl, cycloalkylsulfonyl, cycloalkylsulfonylalkyl, haloalkylsulfonyl, arylsulfonyl, halo, hydroxyalkyl, alkoxyalkyl, alkylcarbonyl, arylcarbonyl, aralkylcarbonyl, heterocyclocarbonyl, cyanoalkyl, aminoalkyl, alkylaminoalkyl, N-arylaminoalkyl, N-alkyl-N-arylaminoalkyl, carboxyalkyl, alkoxycarbonylalkyl, alkoxycarbonyl, haloalkylcarbonyl, carboxyl, aminocarbonyl, alkylaminocarbonyl, alkylaminocarbonylalkyl, heteroarylalkoxyalkyl, heteroaryloxyalkyl, heteroarylthioalkyl, aralkoxy, aralkylthio, heteroaralkoxy, heteroaralkylthio, heteroarylalkylthioalkyl, heteroaryloxy, heteroarylthio, arylthioalkyl, aryloxyalkyl, arylthio, aryloxy, aralkylthioalkyl, aralkoxyalkyl, aryl and heteroaryl; wherein R^4 is a radical selected from hydrido, alkyl and halo; and wherein R^{13} and R^{14} are independently selected from aryl and heterocyclo, wherein R^{13} and R^{14} are optionally substituted at a substitutable position with one or more radicals independently selected from alkylsulfonyl, aminosulfonyl, halo, alkylthio, alkyl, cyano, carboxyl, alkoxycarbonyl, haloalkyl, hydroxyl, alkoxy, hydroxyalkyl, alkoxyalkyl, haloalkoxy, amino, alkylamino, arylamino and nitro; provided at least one of R^{13} and R^{14} is aryl substituted with alkylsulfonyl or aminosulfonyl; or a pharmaceutically-acceptable salt thereof.



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